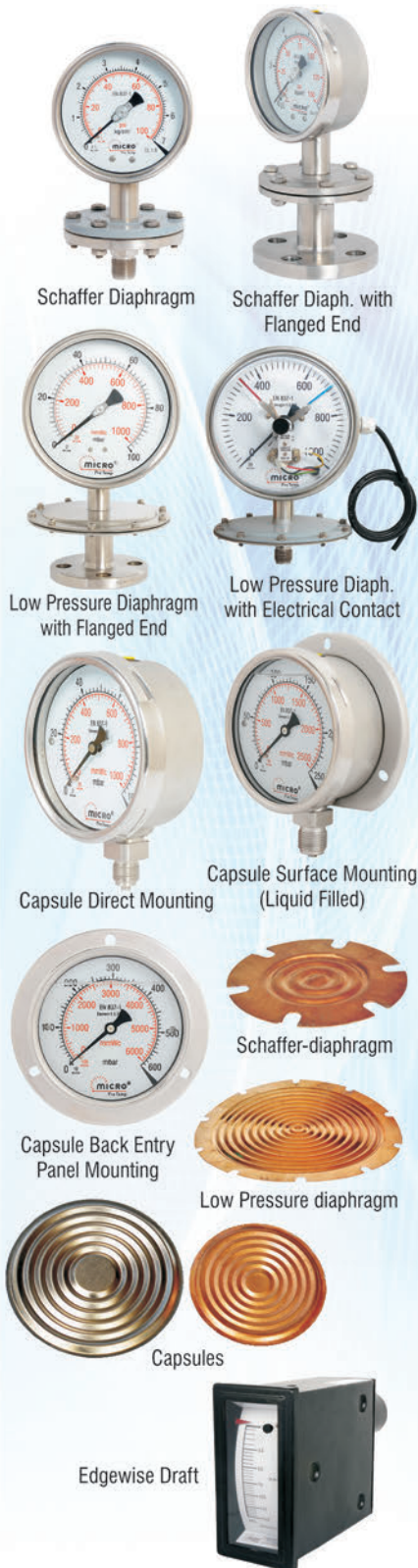


**MICRO** Schaffer & Low Pressure Diaphragm operated pressure gauges can be used for most fluids and gases. They are less sensitive to mechanical shock than conventional bourdon tube gauges and can easily be protected against over pressure and aggressive fluids or gases. The measuring element and process connection constitute a compact system. The connection can be either screwed or wide bore screwed or flanged to the appropriate standard to satisfy need of various nature of liquids. The wetted parts can be protected by special materials like PTFE, tantalum etc. Diaphragm gauges are designed for the pressure ranges as low as 250 mmWc up to 21 bar.

**MICRO** Capsule operated pressure gauges are extremely sensitive and highly accurate, specially designed for measuring very low pressure. They are well suited to systems where air or other gases are the measured media. The finely polished pinion gear and shaft of movements ensures repeatable accuracy. The sensors are available with ferrous and non ferrous alloys, so sensor can be selected considering measured gases which do not attack selected alloy's sensor. Capsule operated edgewise draft gauge are available for extremely low pressure upto 50 mmWc.

**Technical Specifications: (Confirming to EN-837-3 & IS-3624)**



- **Abbreviation Used in technical Specification :**  
'SCH' for Schaffer diaphragm, 'LPD' for low pressure diaphragm, 'CC' for Compact Capsule & 'ED' for edgewise draft.
- **Nominal size :**  
Ø 63, 100 & 150 mm (For CC)  
Ø 100 & 150 mm (For SCH & LPD)  
Rectangular (80 x 150mm front panel & 68 x 135mm cutout)
- **Accuracy :**  
± 1.6% of FS (for SCH & LPD)  
(± 1% of FS Optional)  
± 2% of FS (For CC & ED)
- **Case & Bezel :**  
SS 304 case with Snap Action bayonet lock type bezel (SS 316 Optional)  
MS Black coated (For ED)
- **Ingress Protection :**  
IP 65 as per EN 60 529 or IS/IEC 60 529  
IP 68 as per IS/IEC 60 529 for Ø 100 & 150 mm - Optional
- **Pressure element :**  
SS 316 Diaphragm (For SCH & LPD)  
Cu-Alloy / SS 316 Capsule (For CC & ED)
- **Over pressure limit :**  
125% of FS & 110% of FS for ED
- **Movement :**  
SS 304 (For SCH & LPD)  
Brass / SS 304 with Zero Adj. Provision (For CC)
- **Socket :**  
SS 304 / SS 316 / SS 316L
- **Diaphragm Unit – (For SCH & LPD)**  
**Top Chamber :**  
MS Powder Coated (Standard) / SS 304 / SS 316  
**Lower Chamber :**  
SS 316 (Standard) / SS 316L / PTFE or PFA Coating or 3mm Lining & Others on request
- **Dial :**  
Aluminium – Pre-coated White with black marking
- **Pointer :**  
Aluminium – Black finish fix type (For CC)  
Aluminium – Center / Micro Zero Adjustment (For SCH & LPD)  
Tin or Aluminium Red finished (For ED)
- **Window :**  
4 mm thick Toughened Glass (Safety / Shatter Proof Optional)  
Transparent Acrylic for CC & ED
- **Joints :**  
Argon welded
- **Sealing gasket :**  
Neoprene Rubber (EPDM Optional)
- **Blow out protection :** (Not applicable for ED)  
Neoprene Rubber (EPDM Optional)  
For Ø 63 mm : On Top of Case  
For ≥ Ø 100 mm : On Back of Case
- **Pressure relief :** (Not applicable for ED)  
Top of Case with Vent Valve (On Request)
- **Process Connection :**  
1/4" / 3/8" / 1/2" BSP / NPT / BSPT (Male)  
M12 X 1 (For Ø63 mm),  
M20 X 1.5 (Male) ≥ Ø 100 mm  
Flanged to specific standard & Ratings (For SCH & LPD)  
(Other connection on Request)
- **Permissible temperature :**  
Ambient : -25°C to 65°C  
Process : Maximum 150°C
- **Type of mounting :**  
Bottom Connection Direct Mounting (For CC, SCH & LPD)  
Back Connection Direct Mounting (For CC)  
Bottom Connection Surface Mounting (For CC)  
Back Connection Panel Mounting (For CC)  
Back Connection Bracket Mounting (For CC & ED)
- **Pressure range :**  
-30" Hg ... 0 ... 21 bar (For SCH)  
250... 6000 mmWc (Pressure / Vacuum / Compound) (For LPD & CC)  
50... 6000 mmWc (Pressure / Vacuum / Compound) (For ED)
- **Optional Available features :**
  - Liquid (Silicon Oil) Filled Case (For CC)
  - Electrical Contact for Ø 100 & 150 mm (For SCH & LPD)
  - Customised scale/logo

**APPLICATION**

- Gas regulators
- Boilers/furnace manufacturer
- Ventilation and air conditioning equipments
- Artificial respiration devices
- Lead testers
- Exhaust system
- Blowers
- Filter monitoring and level indication etc.